

Message Text

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ACTION EA-14

INFO OCT-01 ISO-00 COME-00 EB-11 FEA-02 DRC-01 AEC-11

AID-20 CEA-02 CIAE-00 CIEP-02 DODE-00 FPC-01 H-03

INR-10 INT-08 L-03 NSAE-00 NSC-07 OMB-01 PM-07 RSC-01

SAM-01 SCI-06 SPC-03 SS-20 STR-08 TRSE-00 /143 W

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FM AMEMBASSY BANGKOK

TO SECSTATE WASHDC 1748

UNCLAS BANGKOK 4773

E. O. 11652: N/A

TAGS: ENRG, TECH, TH

SUBJ: THAI ANSWER TO OIL SHORTAGE, CLAIMED INVENTION
OF CHEAP SUBSTITUTE FOR GASOLINE

REF : STATE 052033

FOR COMMERCE

SUMMARY: SUBSTITUTE FUEL, "T. ETERNAL GASOLINE", DEVELOPED
BY M.R. DEBHARIDHI DEVAKUL IS A LIQUID CONSISTING OF ACETYLENE
ABSORBED INTO WATER AND, ACCORDING TO INVENTOR, POSSESSING AN
OCTANE RATING OF 90. END SUMMARY.

1. ACCORDING TO INVENTOR M.R. DEBHARIDHI DEVAKUL, HIS SUBSTI-
TUTE FOR REGULAR GASOLINE, T. ETERNAL GASOLINE, IS A LIQUID
CONSISTING OF ACETYLENE ABSORBED INTO WATER AND HAS 90
OCTANE RATING. BELIEVES HIGHER OCTANES POSSIBLE WITH
APPROPRIATE ADDITIVES. DEBHARIDHI'S DISCOVERY ESSENTIALLY
THAT OF CATALYST WHICH ALLEGEDLY ENABLES HIGHER
ABSORPTION THAN 1.1 CUBIC CENTIMETERS ACETYLENE PER
100 CC OF WATER. END PRODUCT BELIEVED TO HAVE HIGH
HYDROGEN COMPONENT. DEBHARIDHI CLAIMS, AND APPEARANCE
INDICATES, FUEL TO BE STABLE AND ABLE TO BE HANDLED IN
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SAME MANNER AS REGULAR GASOLINE.

2. FUEL NOW BEING PRODUCED ON LABORATORY BASIS OF 40 LITERS PER 24 HOURS FROM 350 GRAMS CALCIUM CARBIDE AND 50 LITERS WATER PLUS CATALYST AT 147 PSI AND TEMPERATURE LESS THAN 20 DEGREES CENTIGRADE. COST OF RAW MATERIALS STATED TO BE BAHT 0.50, OR APPROX. 2.5 CENTS PER LITER. DEBHARIDHI MANUFACTURES OWN CALCIUM CARBIDE AT COST FOR 350 GRAMS OF ONE BAHT. IDENTITY OF CATALYST WITHHELD. THE CATALYST, SAID TO BE READILY AVAILABLE AND FOUND IN THAILAND; APPEARS TO BE THE KEY TO DEBHARIDHI'S "T. ETERNAL FUEL." QUANTITY USED PER 40 LITERS OF FUEL ABOUT SIZE OF PENCIL POINT.

3. DEBHARIDHI STATES HAS BEEN TESTING FUEL IN STANDARD 1300 CC VOLKSWAGEN BEATLE CARS AND VW 1600 CC STATIONWAGON. IN REGULAR VW AT SPEED 80 KMH HE GETS 16 KM PER LITER WITH HIS FUEL COMPARED WITH 10.3 KM PER LITER WITH REGULAR GAS. HAS DRIVEN 5600 KILOMETERS IN TEST CAR WITHOUT TROUBLE AND STATES PERFORMANCE USING NEW FUEL AT LEAST EQUAL TO REGULAR GAS.. CLAIMS ENGINE RUNS COOLER AND CLEANER, I.E., LESS DEPOSIT ON SPARK PLUGS, CLEAN EXHAUST, WITH NEW FUEL THAN WITH ORDINARY GAS. SAYS ENGINE OPERATES SMOOTHLY AT ALL SPEEDS AND ACCELERATION IS GOOD. INTAKE MANIFOLD FROSTS TO ONE MILLIMETER THICKNESS TWO MINUTES AFTER ENGINE STARTS BUT FROST BUILDUP DOES NOT INCREASE BEYOND THAT. THINKS MAY BE RESULT VAPORIZATION IN MANIFOLD.

4. THEREE VEHICLES AND A SPEARATE ENGINE WERE CONTRIBUTED FOR PROJECT TEST BY VOLKSWAGEN COMPANY. ACCORDING DEBHARIDHI, VW NOW CARRYING OUT ANALYSIS OF NEW FUEL IN WEST GERMANY AND SENIOR VW EXECUTIVE MARCH 21 INDICATED STRONG INTEREST IN NEGOTIATING TECHNOLOGY LICENSE FOR EUROPEAN PRODUCTION AS WELL AS INVESTMENT IN PLANT TO PRODUCE NEW FUEL IN THAILAND. VW EXECUTIVE RETURNED HEADQUARTERS WITH ADVICE TO HIS CHAIRMAN TO MAKE PROPOSAL TO HIS MAJESTY THE KING FOR WHOM DEBHARIDHI IS WORKING ON THIS PROJECT. DEBHARIDHI NOTED THAT JAPANESE HAD PREVIOUSLY VOLUNTEERED ASSISTANCE TO RESEARCH PROJECT ON CONDITION ONE OF THEIR REPRESENTATIVES WORK ALONGSIDE DEBHARIDHI. THAT OFFER CONSIDERED UNSATISFACTORY.

5. DEBHARIDHI ALSO WELL ALONG ON RESEARCH PROGRAM TO DEVELOP UNCLASSIFIED

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DIESEL OIL BASED ON RUBBER SEED OIL COMBINED WITH T. ETERNAL GASOLINE.

6. REPRESENTATIVES LOCAL OIL COMPANIES EXPRESSED OPINION THAT T. ETERNAL GASOLINE NOT A THREAT TO REGULAR GAS BUT EVIDENCED NO DIRECT KNOWLEDGE OF PRODUCT AND PROGRESS NOR BASIS FOR OPINIONS.

7. DEBHARIDHI SAID THAT HIS MAJESTY THE KING WANTS TO
T ETERNAL FUEL WITH THE ROYAL LIMOUSINES BUT HE IS RELUCTANT
TO LET HIM DO SO BEFORE FINISHING THE LONG-DISTANCE TEST RUN.

8. IF DEPARTMENT WISHES PURSUE THIS MATTER IN DETAIL IT MAY
WISH TO SEND TECHNICAL EXPERT FROM USA.
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